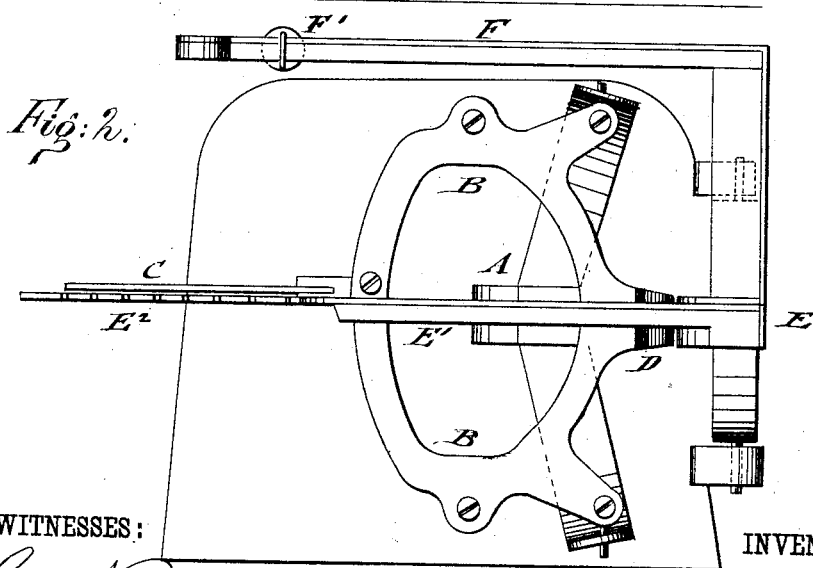
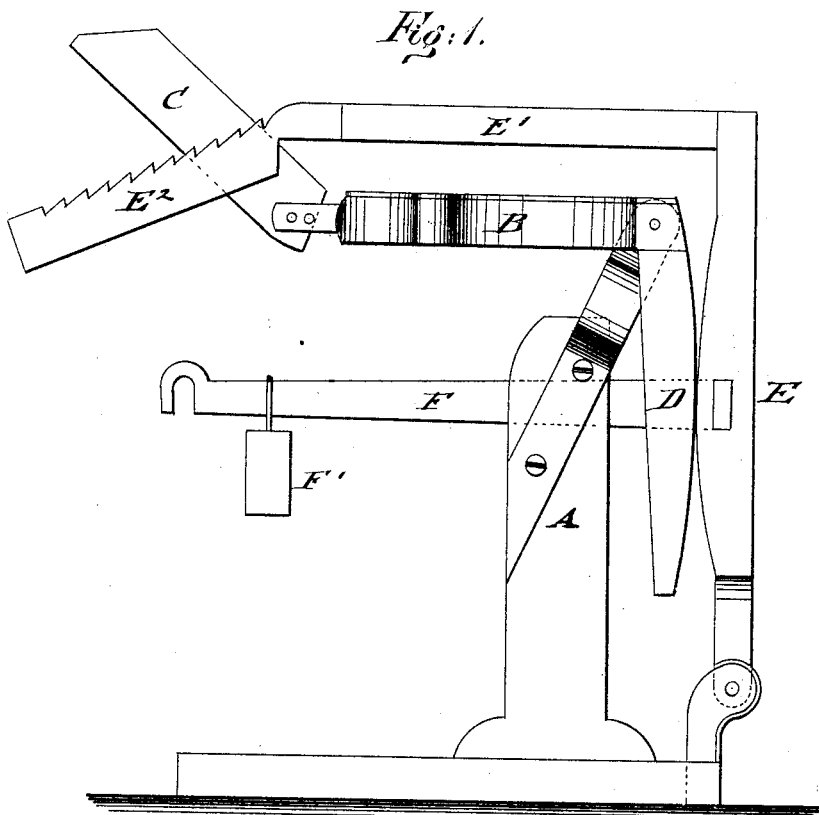


C. L. CROWELL.  
Weighing-Scale.

No. 198,575.

Patented Dec. 25, 1877.



WITNESSES:

*Chas. Nida.*  
*J. H. Scarborough.*

INVENTOR:

*C. L. Crowell.*  
BY *Munn & Co.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHESTER L. CROWELL, OF ROCKDALE, NEW YORK.

## IMPROVEMENT IN WEIGHING-SCALES.

Specification forming part of Letters Patent No. **198,575**, dated December 25, 1877; application filed November 16, 1877.

*To all whom it may concern:*

Be it known that I, CHESTER L. CROWELL, of Rockdale, in the county of Otsego and State of New York, have invented a new and Improved Weighing-Scale, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a side elevation of my improved scale, and Fig. 2 a top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to improvements in weighing-scales, by which the scale-pan is always kept accurately in balance, and any weight placed thereon conveniently read off; and the invention consists of a fulcrumed scale-pan support with fixed indicator and rocking-lever arm, in connection with a second rocking lever, having graduated top arm and side arm, with sliding weight for balancing the scale-pan.

Referring to the drawings, A represents an upright supporting standard or post, to the forked top part of which the scale-pan support B is fulcrumed. The scale-pan support B is provided at the front end with a fixed and inclined indicator, C, and at the rear part with a downward-extending lever-arm, D, having convex rear face.

The face of the rocking-lever arm D of the scale-pan support bears against a convexly-curved rocking lever, E, that is pivoted by its

lower forked parts to bearings of the base of the scale.

A forward-extending top arm, E<sup>1</sup>, with graduated end piece E<sup>2</sup>, passes across scale-pan support B, and sidewise of indicator C, so as to raise, by placing a weight on scale-pan, the graduated piece E<sup>2</sup>, by the joint action of the rocking levers D and E. The weight of the load is thus readily read off by the position of the indicator on the graduated piece.

The rocking lever E is also provided with a side arm, F, and sliding weight F', for the purpose of balancing in accurate manner the weight of the scale-pan, and determining thereby the exact weight of the article placed on the scale-pan.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A weighing-scale consisting of a fulcrumed pan-support, with front indicator and rocking rear lever, in combination with a rocking lever having a top arm with a graduated end piece passing sidewise of indicator, and having also a pan-balancing side arm and slide-weight, substantially as set forth.

CHESTER LAZELL CROWELL.

Witnesses:

JOSEPH KING,  
WILLIAM O. KING.